

**From:** [Vega, Luis](#)  
**To:** [Coltrain, Katrina](#)  
**Cc:** [McMillan, Teresa](#); [cradu@eaest.com](mailto:cradu@eaest.com)  
**Subject:** RE: RI timing - revised  
**Date:** Friday, June 3, 2016 2:02:42 PM

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Hi Katrina

Cristina reminded me that we might want to have EPA HQ (Deanna) consider the "proposed" revised action level of 200 ppm for lead (vs. 400 ppm currently) when she composes the write-up for delineation of the Lead Sweetening Area.

Thanks

**Luis Vega**

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**From:** Radu, Cristina  
**Sent:** Friday, June 03, 2016 1:36 PM  
**To:** Coltrain, Katrina ([coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)); Vega, Luis; McMillan, Teresa  
**Subject:** RI timing - revised  
Revised staging of the investigation:

Mobilization 1:

- Everything that was proposed on the reconnaissance. including asbestos, NORM, wetlands survey, survey for location of seeps with IR camera, recon potential tanks on west side, waste delineation
- Lead area delineation with protocols and QA/QC procedures established for XRF (to be done by Deana); the FSP will referenced as an appendix
- Develop parsonage well; camera survey; survey it: temp probe and field conductivity (IDW), measure LNAPL thickness; collect LNAPL and water sample
- GW residential wells (10 + 2 additional wells that may be accessible in the tank farm)
- Install piezometers where water may be seeping in Sand Creek – prepacked, 2-in diameter; count of 10; ETF, Lorraine, Wilcox; gauge the depth to water at installation and once more toward the end of the mobilization and collect a sample, if water is accumulated
- Wilcox and Lorraine Process Areas – delineate the ROST with soil borings with sampling above, below, and around the "green area" (soil nature and extent delineation); focus sampling in the areas of non-contamination;
- ETF – delineate the ROST with soil borings around former Tanks # 3 and 5 and delineate around Tanks #1 and 4 (maybe coming from the east side)
- PSG sampling for VOCs in the ROST areas everywhere, ETF, Tanks #11 and #12, at least in residential yards; BTEX and check on naphthalene
- Soil background (to make decisions on COPCs retained moving forward); change to incremental
- Surface water/sediment in creeks, tributaries, and ponds (as currently designed), depending on funding and schedule

Mobilization 2:

- ICS for soil at locations indicated by data for sampled from soil borings at Wilcox and Lorraine Process Area in Mob 1
- Vapor intrusion; refine based on PSG results
- Ground water characterization consisting of monitoring well installation; abandonment of the parsonage well
- Loading Dock
- Characterization of remainder portion of ETF
- NTF – delineation of nature and extent
- Surface water/sediment in creeks, tributaries, and ponds; if not done in Mobilization 1
- Drainage ditches by ICS
- Waste sampling and characterization

Mobilization 3:

- Biota (if necessary)

Cristina Radu

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